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New Application

Docket No.: 19200-000041/US

IN THE CLAIMS

1. (Original) A method for separating a first quantity of milk drawn from a milking

animal in an automatic milking machine from a second quantity of milk drawn from a

milking animal in said milking machine comprising the steps of:

- milking an animal using said automatic milking machine,

- measuring a first indicator of mastitis,

- automatically collecting a small representative amount of said first quantity of

milk during said milking,

- analyzing at least a part of said small representative amount of milk using an

on—line cell counter for counting the number of cells in said first quantity of milk,

- operating a valve depending on the counted number of cells so that if the counted

number of cells are below a first threshold said first quantity of milk is collected in a first

container and if said counted number of cells are equal to or above said first threshold

said first quantity of milk are directed to a drain or a second container, and wherein

- said analyzing of at least a part of said representative amount of milk, and said

operation of said valve, are performed only if said first indicator of mastitis is above a

second threshold.

2. (Original) The method according to claim 1, wherein the step of operating a valve

further comprises the step of

- collecting said first quantity of milk in a third container if the counted number of cells

are above a third threshold but below said first threshold and

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- collect said first quantity of milk in said first container if said counted number of cells

are below said third threshold, thereby collecting milk of a first superior quality in said

first container, milk of a second quality in said third container and milk of a third quality

is directed to said drain or collected in said second container.

3. (Currently Amended) The method according to claim 1 or 2, claim 1, wherein said

first indicator of mastitis is one indicator, or a selection of multiple indicators, selected

from a group of indicators comprising: the conductivity of said first quantity of milk, the

NAgase value of said first quantity of milk, the Urea value of said first quantity of milk,

the temperature of said first quantity of milk, the milk flow from said milking animal or

the milk quantity from a teat of said milking animal.

4. (Currently Amended) The method according to any of the claims above, claim 1,

wherein said small representative amount of milk is collected from a milk measuring

device.

5. (Currently Amended) The method according to any of the claims above, claim 1,

wherein said first quantity of milk drawn from one milking animal is collected in an end

unit for the duration of performing the somatic cell count.

6. (Currently Amended) The method according to any of the claims above, claim 1,

wherein said first quantity of milk is collected from a first teat of a milking animal and

said second quantity of milk is collected from a second teat of said milking animal.

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7. (Currently Amended) The method according to any of the claims above, claim 1,

wherein said first quantity of milk is collected from a first milking animal and said

second quantity of milk is collected from a second milking animal.

8. (Currently Amended) An automatic milking machine comprising means for separating

a first quantity of milk drawn from a milking animal in said automatic milking machine

from a second quantity of milk drawn from a milking animal in said milking machine

characterised. in, wherein,

- a collecting device for collecting a small representative amount of said first quantity of

milk during said milking,

- a measurement device for measuring a first indicator or mastitis,

-a on-line cell counter for analysing at least a part of said small representative amount of

milk for counting the number of cells in said first quantity of milk,

-at least a first valve operable to direct said first quantity of milk depending on the

counted number of cells, so that if the counted number of cells are below a first threshold

said first quantity of milk is collected in a first container and if said counted number of

cells are equal to or above said threshold said first quantity of milk are directed to a drain

or a second container, and

- wherein said on-line cell counter is arranged to analyse said first quantity of milk only

if said first indicator of mastitis is above a second threshold.

9. (Original) The automatic milking machine according to claim 8, wherein said valve is

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further operable to direct said first quantity of milk so as to:

- collect said first quantity of milk in a third container if the counted number of cells are

above a third threshold but below said first threshold and

- collect said first quantity of milk in said first container if said counted number of cells

are below said third threshold, thereby collecting milk of a first superior quality in said

first container, milk of a second quality in said third container and milk of a third quality

is directed to said drain or collected in said second container.

10. (Currently Amended) The automatic milking machine according to elaim 8 or 9,

claim 8, wherein said measurement device for measuring a first indicator of mastitis is

arranged to measure one indicator, or a selection of multiple indicators, selected from a

group of indicators comprising: the conductivity of said first quantity of milk, the

NAqase value of said first quantity of milk, the Urea value of said first quantity of milk,

the temperature of said first quantity of milk, the milk flow from said milking animal or

the milk quantity from a teat of said milking animal.

11. (Currently Amended) The automatic milking machine according to elaims 8-10,

claim 8, wherein said small representative amount of milk is collected from a milk

measuring device.

12. (Currently Amended) The automatic milking machine according to claim 8—11,

claim 8, wherein said first quantity of milk is collected from a first teat of a milking

animal and said second quantity of milk is collected from a second teat of said milking

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animal.

13. (Currently Amended) The automatic milking machine according to claim 8 - 12,

claim 8, wherein said first quantity of milk is collected from a first milking animal and

said second quantity of milk is collected from a second milking animal.